

14/5,K/2 (Item 2 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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01209858

SYSTEM AND METHOD FOR DETERMINING CLUSTER MEMBERSHIP IN A HETEROGENEOUS
DISTRIBUTED SYSTEM
SYSTEM UND VERFAHREN ZUR GRUPPENZUGEHORIGKEITSBESTIMMUNG IN EINEM
HETEROGENEN VERTEILTEN RECHNERSYSTEM

SYSTEME ET PROCEDE PERMETTANT DE DETERMINER L'APPARTENANCE A UNE GRAPPE
DANS UN SYSTEME HETEROGENE REPARTI

PATENT ASSIGNEE:

SUN MICROSYSTEMS, INC., (1392733), 901 San Antonio Road, Palo Alto,
California 94303, (US), (Proprietor designated states: all)

INVENTOR:

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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 1159681 A2 011205 (Basic)
EP 1159681 B1 031112
WO 2000054152 000914

APPLICATION (CC, No, Date): EP 2000917753 000306; WO 2000US5794 000306

PRIORITY (CC, No, Date): US 266195 990310

DESIGNATED STATES (Pub A): AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE;
IT; LI; LU; MC; NL; PT; SE; (Pub B): DE; GB; IE; NL

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-009/50

CITED PATENTS (EP B): EP 750256 A; EP 887731 A; US 5761077 A

NOTE:

No A-document published by EPO

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 001108 A2 International application. (Art. 158(1))
Application: 001108 A2 International application entering European
phase
Application: 011205 A2 Published application without search report
Examination: 011205 A2 Date of request for examination: 20010822
Examination: 020116 A2 Date of dispatch of the first examination
report: 20011130

Grant: 031112 B1 Granted patent

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200346	2825
CLAIMS B	(German)	200346	2731
CLAIMS B	(French)	200346	3050
SPEC B	(English)	200346	4617
Total word count - document A			0
Total word count - document B			13223
Total word count - documents A + B			13223

INTERNATIONAL PATENT CLASS: G06F-009/50

...SPECIFICATION handle all of the tasks associated with the database
diminishes. Other concerns, such as failure handling and the response
time under a large volume of **concurrent queries**, also **increase** the
number of problems that a single computer must face when running a
database program.

There are two basic ways to handling a large-scale...

14/5,K/3 (Item 3 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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01136590

Provision of continuous database service and scalable query performance
using active redundant copies

Bereitstellung von kontinuierlichen Datenbankdiensten und skalierbarer
Suchleistung durch aktive redundante Kopien

Provision de service de base de donnees et performance d'interrogation
echelonnable par l'usage des copies redondantes

PATENT ASSIGNEE:

NCR INTERNATIONAL INC., (1449480), 1700 South Patterson Boulevard,
Dayton, Ohio 45479, (US), (Applicant designated States: all)

INVENTOR:

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Blevins, Terence J., 1083 Highpoint Drive, Springboro OH 45066, (US)
Ramsey, David Allen, 124 Belle Chase Drive, Lexington SC 29072, (US)

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PATENT (CC, No, Kind, Date): EP 992909 A2 000412 (Basic)
EP 992909 A3 011219

APPLICATION (CC, No, Date): EP 99307381 990917;

PRIORITY (CC, No, Date): US 163708 980930

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-011/14

ABSTRACT EP 992909 A2

A method and apparatus for distributing computer resources in a network environment. A network of computer systems is partitioned into at least one computing system partition, and is configured into at least one redundancy group. The computing system partitions include applications, computing system nodes, and copies of a database schema. The copies of the database schema are replicated at each computing system partition within a network. The computing system partition manages interactions between the instances, the computing system nodes, and the copy of the database schema within the respective computing system partition. The redundancy group comprises at least one computing system and at a plurality of computing system partitions, and manages the replication of the database schema within the computing system and computing system partitions.

ABSTRACT WORD COUNT: 126

NOTE:

Figure number on first page: NONE

LEGAL STATUS (Type, Pub Date, Kind, Text):

Change: 001004 A2 Inventor information changed: 20000814
Application: 20000412 A2 Published application without search report
Examination: 030312 A2 Date of dispatch of the first examination
report: 20030122
Examination: 020821 A2 Date of request for examination: 20020619
Search Report: 011219 A3 Separate publication of the search report

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200015	787
SPEC A	(English)	200015	4034
Total word count - document A			4821
Total word count - document B			0
Total word count - documents A + B			4821

INTERNATIONAL PATENT CLASS: G06F-011/14

...SPECIFICATION attainable with just one computing system partition 104 and one copy of the database 306. Query performance and availability scale as CSP's 202 are added to a redundancy group. With standard computers, as performance goes up, availability typically goes down. The present invention allows both availability and query performance for

data warehousing systems to both go up **simultaneously** .

Redundancy groups 104 of the present invention accommodate the condition in which CSPs 202 arbitrarily undergo exit and reintroduction scenarios, but a sufficiently configured redundancy...

14/5,K/4 (Item 4 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01134455

Failure recovery of partitioned computer systems including a database schema

Ausfallbeseitigung von verteilten Rechnersystemen die Datenbankschemata beinhalten

Retablissement de defaillance de systemes d'ordinateurs partages contenant un schema de base de donnees

PATENT ASSIGNEE:

NCR INTERNATIONAL INC., (1449480), 1700 South Patterson Boulevard,
Dayton, Ohio 45479, (US), (Applicant designated States: all)

INVENTOR:

Lynn, Poul Hedegard, 315 Via Montanosa, Encinitas, CA 92024, (US)

LEGAL REPRESENTATIVE:

Cleary, Fidelma et al (85871), International IP Department NCR Limited
206 Marylebone Road, London NW1 6LY, (GB)

PATENT (CC, No, Kind, Date): EP 990986 A2 000405 (Basic)

APPLICATION (CC, No, Date): EP 99306824 990827;

PRIORITY (CC, No, Date): US 164258 980930

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: **G06F-011/07**

ABSTRACT EP 990986 A2

A method and apparatus for automatically redistributing tasks to reduce the effect of a computer outage on a computer network. The apparatus comprises at least one redundancy group comprised of one or more computing systems, comprised of one or more computing system partitions. The computing system partition includes copies of a database schema that are replicated at each computing system partition. The redundancy group monitors the status of the computing systems and the computing system partitions, and assigns a task to the computing systems based on the monitored status of the computing systems.

ABSTRACT WORD COUNT: 94

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 20000405 A2 Published application without search report

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200014	558
SPEC A	(English)	200014	4855
Total word count - document A			5413
Total word count - document B			0
Total word count - documents A + B			5413

INTERNATIONAL PATENT CLASS: **G06F-011/07**

...SPECIFICATION attainable with just one computing system partition 202 and one copy of the database 306. Query performance and availability scale as CSP's 202 are **added** to a redundancy **group** 104. With standard computing systems 100A-D, as performance goes up, availability typically goes down. The present invention allows both availability and **query** performance for computing systems 100A-D to both go up **simultaneously** .

Redundancy groups 104 of the present invention accommodate the condition in which CSPs 202 arbitrarily undergo exit and reintroduction

scenarios, but a sufficiently configured redundancy...

14/5,K/8 (Item 8 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00651236

Method and system for searching a database utilizing a graphical user interface

Verfahren und System, um mit einer graphischen Benutzerschnittstelle in einer Datenbank zu suchen

Procede et dispositif pour chercher dans une base de donnees en utilisant une interface utilisateur graphique

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (applicant designated states: AT;BE;CH;DE;ES;FR;GB;IT;LI;NL;SE)

INVENTOR:

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Allan, Tate Bruce, 6308 Harrogate, Austin, Texas 78759, (US)

LEGAL REPRESENTATIVE:

Burt, Roger James, Dr. et al (52152), IBM United Kingdom Limited
Intellectual Property Department Hursley Park, Winchester Hampshire
SO21 2JN, (GB)

PATENT (CC, No, Kind, Date): EP 627691 A1 941207 (Basic)

APPLICATION (CC, No, Date): EP 94107108 940506;

PRIORITY (CC, No, Date): US 72626 930604

DESIGNATED STATES: AT; BE; CH; DE; ES; FR; GB; IT; LI; NL; SE

INTERNATIONAL PATENT CLASS: G06F-015/403

ABSTRACT EP 627691 A1

A search facility having a user interface (100) including three windows: a query window (101), a graph window (102) and a history window (103), presented simultaneously in the graphical user interface (100). The query window (101) displays the text of the most recently input query statement (104) which is searched in a database stored in a computer system. The graph window (102) graphically displays the current results (105) of the most recent query statement (104). The history window (103) presents the query statements and their results during the current query session. In one preferred embodiment, the query statements and their results are graphically presented as a tree (108), wherein the query statements and query results are nodes (106,107) and each query statement result (107) is a child of the query statement (106) which was run to create it. Input to any of the windows will change the presentation of data within the other two windows. (see image in original document)

ABSTRACT WORD COUNT: 162

LEGAL STATUS (Type, Pub Date, Kind, Text):

Examination: 030409 A1 Date of dispatch of the first examination report: 20030225

Application: 941207 A1 Published application (A1with Search Report ;A2without Search Report)

Examination: 950621 A1 Date of filing of request for examination: 950425

Change: 960221 A1 Representative (change)

Change: 990728 A1 Designated Contracting States (change)

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF2	868
SPEC A	(English)	EPABF2	5752
Total word count - document A			6620
Total word count - document B			0
Total word count - documents A + B			6620

INTERNATIONAL PATENT CLASS: G06F-015/403

...SPECIFICATION report or results and the query history together, the user can interactively see a query result, manipulate a query result to generate predicates to be **added** to the next **query** statement, modify the updated query statement, and see the next query result after the new query statement is modified and executed. Further, a logging facility...

...more effective way for iterative problem solving than any previous method because a clear record of past activity is actively maintained and is readily available **concurrently** with the most recent **query** statement and result. Also, a trial and error problem solving session can be saved and edited to produce plans for future use, which greatly increases...

14/5,K/10 (Item 10 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00512958

Intelligent page store for concurrent and consistent access to a database by a transaction processor and a query processor.

Intelligenter Seitenspeicher für gleichzeitigen und konsequenten Zugriff auf eine Datenbank durch einen Transaktions- und Such-Prozessor.

Memoire de page intelligente pour l'accès simultané et consistant à une base de données par un processeur de transaction et de recherche.

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)

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Parr, Francis Nicholas, 82 Teatown Road, RFD 1 No. 632, Croton-on-Hudson, New York 10520, (US)

LEGAL REPRESENTATIVE:

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Informationssysteme GmbH Patentwesen und Urheberrecht, D-70548

Stuttgart, (DE)

PATENT (CC, No, Kind, Date): EP 501160 A2 920902 (Basic)

EP 501160 A3 930908

APPLICATION (CC, No, Date): EP 92101502 920130;

PRIORITY (CC, No, Date): US 660769 910225

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-015/403

CITED REFERENCES (EP A):

ACM TRANSACTIONS ON DATABASE SYSTEMS. vol. 7, no. 2, June 1982, NEW YORK
US pages 209 - 234 GARCIA-MOLINA H., WIEDERHOLD G. 'Read-Only
Transactions in a Distributed Database'

IEEE PROCEEDINGS OF THE 6TH INTERNATIONAL CONFERENCE ON DATA ENGINEERING,
CAT. NO. 90CH2840-7, 9 February 1990, LOS ANGELES, CA, USA pages 512 -
520 SEGEV A., FANG W. 'CURRENCY-BASED UPDATES TO DISTRIBUTED
MATERIALIZED VIEWS';

ABSTRACT EP 501160 A2

A method and apparatus, embodied in an Intelligent Page Store (10), for providing concurrent and consistent access to a functionally separate transaction entity and a query entity to a shared database, while maintaining a single physical copy of most of the data. The Intelligent Page Store (10) contains shared disk storage, and an intelligent versioning mechanism allows simultaneous access by the transaction entity and the query entity to the shared data. The transaction entity is presented the current data and the query entity is presented a recent and consistent version of the data. A single copy of all but recently updated pages is maintained by the Intelligent Page Store (10). The query and transaction entities operate independently of each other and are separately optimized. (see image in original document)

ABSTRACT WORD COUNT: 131

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 920902 A2 Published application (A1with Search Report
;A2without Search Report)
Change: 930407 A2 Representative (change)
Change: 930512 A2 Representative (change)
Search Report: 930908 A3 Separate publication of the European or
International search report
Change: 940921 A2 Representative (change)
Withdrawal: 941130 A2 Date on which the European patent application
was deemed to be withdrawn: 940309

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	722
SPEC A	(English)	EPABF1	7102
Total word count - document A			7824
Total word count - document B			0
Total word count - documents A + B			7824

INTERNATIONAL PATENT CLASS: G06F-015/403

...SPECIFICATION recently up-dated pages is maintained by the intelligent page store, and the query and transaction entities operate independently of each other.

As relational database **queries** become more complex, **parallel** intra-**query** processing, which exploits a large number of processors cooperating on the same query, has become important as a means of improving **query** response times, and providing **incremental** growth. On the other hand, transaction processing is, for the most part, not amenable to intra-transaction parallelism, but requires the support of a large...

...to the same data. For instance, update and transaction traffic can exploit the performance of large processors in tightly coupled shared memory configurations, while complex **queries** against the same data can be handled by **parallel** database software on loosely coupled micro-processors.

In the environment that supports transactions and queries with the above characteristics, further objectives of this invention are...

14/5,K/11 (Item 11 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00366065

Method and system for performing propositional reasoning tasks by operating parallel processors

Verfahren und System zum Durchfuehren von Argumentations- aufgaben unter Verwendung von Lehrsatzten mit Hilfe von parallel betriebenen Prozessoren

Methode et systeme pour accomplir des taches de raisonnement par propositions en utilisant des pocesseurs en parallele.

PATENT ASSIGNEE:

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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 346128 A2 891213 (Basic)
EP 346128 A3 920129
EP 346128 B1 960904

APPLICATION (CC, No, Date): EP 89305817 890609;

PRIORITY (CC, No, Date): US 205125 880610

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-009/44

CITED REFERENCES (EP A):

ACM PROCEEDINGS OF 1981 CONFERENCE ON FUNCTIONAL LANGUAGES AND COMPUTER ARCHITECTURE October 1981, NEW YORK, US pages 163 - 170; J.S. CONERY ET AL.: 'Parallel interpretation of logic program'
COMMUNICATIONS OF THE ASSOCIATION FOR COMPUTING MACHINERY. vol. 29, no. 12, December 1986, NEW YORK US pages 1170 - 1183; W.D. HILLIS ET AL.: 'Data parallel algorithms'
IEEE SECOND INTERNATIONAL CONFERENCE ON COMPUTERS AND APPLICATIONS June 1987, PEKING, CHINA pages 809 - 816; G.Y.KE ET AL.: 'Design considerations of a distributed parallel reduction architecture';

ABSTRACT EP 346128 A2

Propositional reasoning is performed on a massively-parallel processor, with sets of element value combinations being handled by separate processing units. A host processor operates as a problem-solver, generating requests for propositional reasoning, and also operates as an interface between the problem-solver and the parallel processor. In response to a request that includes a formula, the interface provides one or more formulae such as justifications and class restrictions. The interface provides instructions to the parallel processor based on each of these formulae. The instructions based on each formula are provided so that the set of element value combinations handled by each processing unit is not divided or forked into two subsets until necessary. If possible, forking is avoided by forcing the value of an element to the only value consistent with the current formula. Furthermore, if no additional processing unit is available for forking, the current formula is kept on a queue of formulas, and the corresponding instructions are subsequently repeated. In this manner, the host processor orders the formulas into a sequence that reduces the number of processing units required. When necessary, a selected assumption is forced to one value to free processing units; its other value is considered subsequently by backtracking. Each element value is assigned one or more bit positions in each processing unit, but when the values in all the processing units are the same for a given element, its bit position may be reclaimed, to reduce memory requirements. The interface also responds to a request for results by sending instructions that use circuitry in the parallel processor to obtain a combined result from the processing units. (see image in original document)

ABSTRACT WORD COUNT: 279

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 891213 A2 Published application (A1with Search Report ;A2without Search Report)
Search Report: 920129 A3 Separate publication of the European or International search report
Examination: 920902 A2 Date of filing of request for examination: 920702
Examination: 940713 A2 Date of despatch of first examination report: 940526
Change: 960417 A2 Representative (change)
Grant: 960904 B1 Granted patent
Oppn None: 970827 B1 No opposition filed

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	689
CLAIMS B	(English)	EPAB96	824
CLAIMS B	(German)	EPAB96	795
CLAIMS B	(French)	EPAB96	932
SPEC A	(English)	EPABF1	20612
SPEC B	(English)	EPAB96	20740
Total word count - document A			21303
Total word count - document B			23291
Total word count - documents A + B			44594

INTERNATIONAL PATENT CLASS: G06F-009/44

...SPECIFICATION results of parallel processing into a combined result for further processing. Specifically, the system can include an interface that converts a request, such as an **incremental** formula or a **query** for results, into instructions to the **parallel** processing units. The system can also include means for combining the results of parallel processing and providing the combined results to other components.
Even with...

...SPECIFICATION results of parallel processing into a combined result for further processing. Specifically, the system can include an interface that converts a request, such as an **incremental** formula or a **query** for results, into instructions to the **parallel** processing units. The system can also include means for combining the results of parallel processing and providing the combined results to other components.
Even with...

14/5,K/13 (Item 13 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00223499

Deep trap machine.

Maschine zur mehrfachen Filterung.

Machine de filtrage multiple.

PATENT ASSIGNEE:

Hewlett-Packard Company, (206031), Mail Stop 20 B-O, 3000 Hanover Street,
Palo Alto, California 94304, (US), (applicant designated states:
DE;FR;GB)

INVENTOR:

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(US)

LEGAL REPRESENTATIVE:

Colgan, Stephen James et al (29461), CARPMAELS & RANSFORD 43 Bloomsbury
Square, London WC1A 2RA, (GB)

PATENT (CC, No, Kind, Date): EP 223458 A2 870527 (Basic)
EP 223458 A3 890315
EP 223458 B1 930421

APPLICATION (CC, No, Date): EP 86308442 861029;

PRIORITY (CC, No, Date): US 798055 851114

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-015/40 ; G06F-007/02

CITED PATENTS (EP A): EP 124238 A; EP 124238 A

ABSTRACT EP 223458 A2

Provided is an apparatus for digital filtering of sequences of data units, such as sequences of bytes. The apparatus provides for the parallel application of more than one filter and stores the results of applying all filters to a whole sequence of data units. The apparatus involves the interaction of random access memories. Hence, filters are programmable. In addition, individual data units in a sequence may be trapped for comparison solely as a function of their ordinal position in the sequence.

ABSTRACT WORD COUNT: 85

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 870527 A2 Published application (Alwith Search Report
;A2without Search Report)

Change: 890222 A2 International patent classification (change)

Change: 890222 A2 Obligatory supplementary classification
(change)

Search Report: 890315 A3 Separate publication of the European or
International search report

Examination: 890712 A2 Date of filing of request for examination:
890505

Examination: 910710 A2 Date of despatch of first examination report:
910527

Grant: 930421 B1 Granted patent
Oppn None: 940413 B1 No opposition filed
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	893
CLAIMS B	(German)	EPBBF1	780
CLAIMS B	(French)	EPBBF1	1080
SPEC B	(English)	EPBBF1	7523
Total word count - document A			0
Total word count - document B			10276
Total word count - documents A + B			10276

INTERNATIONAL PATENT CLASS: G06F-015/40 ...

... G06F-007/02

...SPECIFICATION wide, the appropriate data-comparison-parameter has dimensions 2 raised to the nth power $x\ 1 = 256 \times 1$.

Moreover, the number of data-comparison- parameters to be searched for per byte may vary. For example, using a 256×8 or a 256×16 RAM allows one to search for 8 or 16 data-comparison-parameters, respectively, in parallel per byte of input data. In addition, a vertical sequence of data-comparison-parameters, referred to as a "filter" in the specification, may be applied...

14/5,K/33 (Item 18 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00192020 **Image available**

METHOD AND APPARATUS FOR STORING, TRANSMITTING AND RETRIEVING GRAPHICAL AND TABULAR DATA

PROCEDE ET APPAREIL DE STOCKAGE, DE TRANSMISSION ET DE RECUPERATION DE DONNEES GRAPHIQUES ET TABULAIRES

Patent Applicant/Assignee:

ARACO,

Inventor(s):

ROZMANITH A Martin,
ROZMANITH Anthony I,
FULOP Gabor F,
BERENSON Neil,
FABIAN Egon Stephen,
TRILLING Ted R,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9109368 A1 19910627
Application: WO 90US7334 19901213 (PCT/WO US9007334)
Priority Application: US 8960619891213; US 90115 19900314; US 90714 19900509; US 90826 19900627

Designated States: AT AU BE BR CA CH DE DK ES FR GB GR HU IT JP KR LU NL RO SE SU

Main International Patent Class: G06F-015/20

Publication Language: English

Fulltext Availability:

Detailed Description
Claims

Fulltext Word Count: 9692

English Abstract

A method and apparatus for rapid search and co-display of graphics and tabular data for both local (10) and distributed computer systems (20). The method rapidly selects and displays (12) related graphical and text information via a Graphical User Interface (16) (GUI) from both a Graphical Relational Database (GRDB) and large tabular database. An operator enters a query where previously encoded and stored graphics elements are selected, via a control program, from a local mass storage device (22) and displayed (12) with related text information on a local

display (12). This method provides intelligent selection and display (12) of graphics data based on an analysis by the system (10) as to what graphics elements or images are required to satisfy the operator query, and how these elements are to be displayed (12) in conjunction with related tabular (text) data.

French Abstract

Procede et appareil de recherche rapide et d'affichage conjoint de donnees graphiques et tabulaires a la fois pour les systemes d'ordinateur locaux (10) et pour les systemes distribues (20). Ledit procede choisit rapidement et affiche (12) des informations associees sous forme de graphiques et de texte grace a une interface d'utilisateur graphique (GUI) a partir d'une base de donnees relationnelles graphiques (GRDB) et une base de donnees tabulaires importante. L'operateur pose une question, et des elements graphiques memorises et prealablement codes sont choisis grace a un programme de controle dans une memoire de masse (22) et affichees (12) avec les donnees de texte associees sur un affichage local (12). Ledit procede permet une selection et un affichage (12) intelligents des donnees graphiques bases sur une analyse effectuee par le systeme (10) des elements ou images requis pour repondre a la question posee par l'operateur, et de la maniere dont lesdits elements doivent etre affiches (12) avec les donnees tabulaires (ou de texte) associees.

Main International Patent Class: **G06F-015/20**

Fulltext Availability:

Detailed Description

Detailed Description

... via a control program, from a local mass storage device and displayed with related textual information on a local display, The remote host, subsequently or **simultaneously**, processes the locally generated **query**. **Incremental**, additional or updated data at the remote host may then be rapidly accessed and 15 transmitted back from the host to the local user.

The...

14/5,K/34 (Item 19 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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DOCUMENT IDENTIFICATION BY CHARACTERISTICS MATCHING

IDENTIFICATION DE DOCUMENT PAR CORRESPONDANCE DE CARACTERISTIQUES

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Claims

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English Abstract

This invention relates to an automatic identification method for scanned documents in an electronic document capture and storage system. The invention uses the technique of recognition of global document features

compared to a knowledge base of known document types. The system first segments the digitized image of a document into physical and logical areas of significance and attempts to label these areas by determining the type of information they contain, without using OCR techniques. The system then attempts to match the areas segmented to objects described in the knowledge base. The system labels the areas successfully matched then selects the most probable document type based on the areas found within the document. Using computer learning methods, the system is capable of improving its knowledge of the documents it is supposed to recognize, by dynamically modifying the characteristics of its knowledge base thus sharpening its decision making capability.

French Abstract

Cette invention concerne un procede d'identification automatique de documents balayés electroniquement dans un systeme de stockage et de capture de documents electroniques. L'invention utilise la technique de reconnaissance de caracteristiques globales de documents comparees a une base de connaissance de types de documents connus. Le systeme effectue un premier decoupage en segments de l'image numerisee d'un document dans des zones physiques et logiques de signification et essaie d'etiqueter ces zones en determinant le type d'information qu'elles contiennent, sans utiliser des techniques OCR. Le systeme essaie ensuite de faire correspondre les zones segmentees a des objets decrits dans la base de connaissance. Le systeme etiquette les zones apariees avec succes, puis selectionne le type de document le plus probable en se basant sur les zones trouvees dans le document. En utilisant des procedes d'apprentissage informatise, le systeme est capable d'ameliorer sa connaissance des documents qu'il est cense reconnaitre en modifiant dynamiquement les caracteristiques de sa base de connaissance rendant ainsi plus performantes ses capacites de prise de decision.

Main International Patent Class: **G06F-015/00**

Fulltext Availability:

Detailed Description

Detailed Description

... identify this document within its class (e.g., name of the party sending the letter, vendor invoice number, etc.). Additionally, certain "key words" may be **added** to allow a **group** of documents within the class to be **simultaneously retrieved** (eego, subject of the letter, type of merchandise ordered, etc).